$$\int f(x) = X h X^{2} \cdot X^{2} + X^{2} \cdot X > 0$$

$$f_{11} = h_1 + 1 - 3 + 2 = 0$$

$$\therefore f(x) < 0_{\square\square\square\square}$$

$$\square X > 0 \square \square \mathcal{C}^{x} > 1 \square \square \square \square$$

$$\therefore a_{000000}[0_0^{+\infty}]_0$$

$$\int f(x) = \ln x - x^2 + x \int g(x) = \frac{\partial e^x}{X} = \frac{\partial e^x}{X}$$

$$\therefore f(x) = \frac{1}{x} - 2x + 1 = \frac{-2x^2 + x + 1}{x}$$

$$\int f(x) = 0_{1000} = 1_{10} = \frac{1}{2}$$

$$\therefore X=1_{\square} f(x)$$

$$g(x) = a \frac{e^{x}(x-1)}{x^{2}}$$

$$_{\square} \mathcal{G}^{(X)} = 0_{\square\square\square X} = 1_{\square}$$

 $^a$ 000000 $^a$ . $^0$ 0

 $\square\square\square\,B_\square$ 

X > 00000  $2ae^{x} - lnx + lna.0$ 0000

$$2ae^{x}...lnx-lna=ln\frac{X}{a_{0000}}$$

$$y = ae^{x}$$
  $y = ln\frac{x}{a}$   $y = 0$   $y = 0$ 

$$2ae^{x}...ln\frac{X}{a_{00000}}2ae^{x}...X_{000}2a...\frac{X}{e^{x}}_{00000}x>0_{0000}$$

$$f(x) = \frac{X}{e^x} \prod_{x \in X} f(x) = \frac{1 - X}{e^x} \prod_{x \in X} f(x) = 0 \prod_{x \in X} X = 1$$

$$\int_{\Omega} f(x)_{max} = f_{11} = \frac{1}{e_{1}}$$

$$2a.\frac{1}{e}$$
  $a.\frac{1}{2e}$ 

$$00000^{\left[\frac{1}{2e_0} + \infty\right)}$$

$$3 \bmod f(x) = e^x$$

$$0100000 g(\vec{x}) = f(a\vec{x}) - x - a_{00000}$$

$$020000 f(x) + lnx + \frac{3}{x} > \frac{4}{\sqrt{x}}$$

$$000001000 g(x) = f(ax) - x - a = e^{ax} - x - a_0 g'(x) = ae^{ax} - 1_0$$

$$\textcircled{1} \ \square \ \overset{a}{\bigcirc} \ \overset{0}{\bigcirc} \ \overset{g'(x)}{\bigcirc} \ \overset{0}{\bigcirc} \ \overset{g(x)}{\bigcirc} \ \overset{R}{\bigcirc} \ \overset{R}{\longrightarrow} \ \overset{R}{\bigcirc} \ \overset{R}{\longrightarrow} \ \overset{R}{\longrightarrow$$

$$X > -\frac{1}{a} \ln a$$
  $g'(x) > 0$   $g(x) = 0$ 

$$0000 a, 000 g(x) = R_{000000}$$

$$a > 0 \quad \text{or} \quad g(x) \quad (-\infty, -\frac{1}{a} \ln a)$$

$$(-\frac{1}{a}\ln a + \infty)$$

$$f(x) + \ln x + \frac{3}{x} > \frac{4}{\sqrt{x}}$$

$$0010000 a = 100 e^{s} - x - 1.000 e^{s}..x + 10$$

$$\lim_{X \to 1} \lim_{X \to 1} \lim_{$$

$$= x^{2} + 2x + 2 - 4\sqrt{x} = (x + 1)^{2} - 4\sqrt{x} + 1 \cdot (2\sqrt{x})^{2} - 4\sqrt{x} + 1 = (2\sqrt{x} - 1)^{2} \cdot ...$$

$$4 \boxed{00} f(x) = ae^{x-1} - \frac{2\sqrt{x}}{a} + 1 \boxed{0}$$

$$010^{a=1}000^{f(x)}000000000$$

$$e^{x-1} - 2\sqrt{x} - hx + \frac{3}{2} ... 0$$

$$00000001000 a = 1_{000} f(x) = e^{x-1} - 2\sqrt{x} + 1(x.0)_{000} f(x) = e^{x-1} - x^{\frac{1}{2}} = e^{x-1} - \frac{1}{\sqrt{x}}$$

$$0000 f(x) 0 0 + \infty) 0000000 f 01 = 0 0$$

$$\underset{\square}{\square} X \in (0,1) \underset{\square}{\square} f(x) < 0 \underset{\square}{\square} f(x) \underset{\square}{\square} (1,+\infty) \underset{\square}{\square} f(x) > 0 \underset{\square}{\square} f(x)$$

000 
$$f(x)$$
 00000  $(0,1)$  00000  $(1,+\infty)$  00000  $f_{010} = 0$  000000

$$(i) \underset{\square}{a} < 1_{\square} (i) = a - \frac{2}{a} + 1_{\square} h(a) = a - \frac{2}{a} + 1(a < 1)_{\square} h_{\square} (-\infty, 1)_{\square} (-\infty, 1)_{\square} h_{\square} (-\infty, 1)_{\square} h_{\square} (-\infty, 1)_{\square} h_{\square} (-\infty, 1)_{\square} h_{\square} (-\infty, 1)_{\square} (-\infty,$$

$$a = \frac{(X-1)^2 - 2}{4e^{x-1}}$$
 1 0000

$$\frac{(x-1)^2-2}{4e^{x-1}}-1=\frac{(x-1)^2-2-4e^{x-1}}{4e^{x-1}}\prod_{n=1}^\infty m(x)=(x-1)^2-4e^{x-1}-2(x>0)$$

$$\prod m(x) = 2(x-1) - 4e^{x-1} = 2(x-1-2e^{x-1}), \ 2(x-1-2x) = 2(-x-1) < 0$$

$$m(x) = 1 - \frac{4}{e} < 0 \qquad \frac{(x-1)^2 - 2}{4e^{x-1}} < 1$$

$$\mathsf{DOD}^{\mathscr{G}} \mathsf{DaOO}^{[1_{\square} + \infty)} \mathsf{DOOOOOO}^{\mathscr{G}} \mathsf{DaO}^{\mathscr{G}} \mathsf{D1OO}$$

$$0000 \stackrel{\vec{n}(\vec{x})}{=} (0, +\infty) 0000000 \stackrel{\vec{n}}{=} 10 = 0$$

$$0 = X \in (0,1) \cup H(X) < 0 \cup H(X) = 0 \cup H(X) \cup H(X) = 0 \cup H(X) > 0 \cup H(X) > 0 \cup H(X) = 0$$

$$00000 \stackrel{a}{=} 000000 \stackrel{[1}{=} 10^{+\infty})_{\, \square}$$

$$e^{r-1} - 2\sqrt{x} - \ln x + \frac{3}{2} ... 0 \frac{(x-1)^2}{2} ... \ln x - \frac{1}{2} \frac{(x-1)^2}{2} ... \ln x - \frac{1}{2} \frac{1}{$$

$$f(x) = \frac{e^x}{e}$$

010 
$$^{k}$$
000000  $^{f(x)}$ ..  $^{kx}$ 0  $^{(0,+\infty)}$ 000000  $^{k}$ 000000

$$0 = \frac{f(x) \ln x + \frac{3}{x} > \frac{5}{2}}{2}$$

$$000000100 F(x) = f(x) - kx = e^{-1} - kx_0$$

$$F(x) = e^{x \cdot 1} - K_{000000}$$

$$\square^{F(x)>0} \bigcirc X> lnk+1 \bigcirc$$

$$\Gamma(x) < 0_{10000} 0 < x < lnk + 1_{1000}$$

$${\color{red}\square} \, F(x)_{\color{blue}\square}(0,\ln\!k\!+\!1)_{\color{blue}\square\square\square\square}(\ln\!k\!+\!1,+\infty)_{\color{blue}\square\square\square}$$

$$_{\square} F(x)_{nm} = F(lnk+1) = k- klnk- k=- klnk.0_{\square}$$

$$_{\square} k > 0_{\square\square} lnk$$
,  $0_{\square\square\square\square} k$ ,  $1_{\square}$ 

$$00^{k}000000^{(0}0^{1]}0$$

$$\int f(x) \ln x + \frac{3}{x} = e^{x-1} \ln x + \frac{3}{x} > \ln x + \frac{3}{x}$$

$$g(x) = \ln x + \frac{3}{x} \qquad g'(x) = \frac{1}{x} - \frac{3}{x^2} = \frac{x - 3}{x^2} < 0$$

 $= \mathcal{G}^{(\lambda)} = (0,1) = 0$ 

$$g(x) > g(1) = 3 > \frac{5}{2}$$

$$f(x) \ln x + \frac{3}{x} = e^{x-1} \ln x + \frac{3}{x} > \ln x + \frac{3}{x} > 3 > \frac{5}{2}$$

$$0 < x < 1_{00000000}$$

$$\lim_{N \to \infty} \ln x \cdot 0 = \int_{0}^{\infty} f(x) \ln x + \frac{3}{x} = e^{x-1} \ln x + \frac{3}{x} \cdot x \ln x + \frac{3}{x}$$

$$\int f(x) \ln x + \frac{3}{x} > \frac{5}{2}$$

$$lnx + \frac{3}{x^2} - \frac{5}{2x} > 0$$

$$m(x) = lnx + \frac{3}{x^2} - \frac{5}{2x}(x.1)$$

$$m(x) = \frac{1}{x} - \frac{6}{x^3} + \frac{5}{2x^2} = \frac{2x^2 + 5x - 12}{2x^3} = \frac{(2x - 3)(x + 4)}{2x^3}$$

$$m(x) = \begin{bmatrix} 1, \frac{3}{2} \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} \frac{3}{2}, +\infty \end{bmatrix}$$

$$m(x)..m(\frac{3}{2}) = ln\frac{3}{2} - \frac{1}{3}$$

$$\frac{27}{8} > 3 > 3 \qquad \frac{3}{2} > e^{\frac{1}{6}} \qquad \ln \frac{3}{2} > \frac{1}{3}$$

$$m(x)..m(\frac{3}{2}) = ln\frac{3}{2} - \frac{1}{3} > 0$$

$$m(x) = \ln x + \frac{3}{x^2} - \frac{5}{2x} > 0$$
  $\ln x + \frac{3}{x} > \frac{5}{2}$ 

$$f(x) \ln x + \frac{3}{x} = e^{x-1} \ln x + \frac{3}{x} \cdot x \ln x + \frac{3}{x} > \frac{5}{2}$$

$$0 = X > 0 = 0$$

$$f(x) \ln x + \frac{3}{x} > \frac{5}{2} = 0$$

$$f(x) = \ln x + \frac{\partial}{\partial x} + x$$

$$200000 \stackrel{X \in (\frac{1}{2}, +\infty)}{=} Xf(X) < e^{x} + X^{2} 0000000 \stackrel{\partial}{=} 000000$$

$$f(x) = \frac{1}{X} - \frac{a}{X^2} + 1 = \frac{X^2 + X - a}{X^2}$$

$$0000 a_{n} 000 f(x) 0(0,+\infty)$$

$$0 = a > 0 = f(x) = (\frac{-1 + \sqrt{1 + 4a}}{2} + \infty) = (0, \frac{-1 + \sqrt{1 + 4a}}{2}) = 0$$

$$g(x) = e^{x} \cdot x h x_{0}^{X} \stackrel{X \in \left(\frac{1}{2}, +\infty\right)}{x_{0}} g(x) = e^{x} \cdot h x \cdot 1_{0}$$

$$g'(x) = e^{x} \cdot \frac{1}{x_{0}} \frac{1}{x_{0}} g'(\frac{1}{2}) = \sqrt{e^{x}} \cdot 2 \cdot 0_{0}^{2} g'(\frac{1}{2}) = e^{x} \cdot 1 \cdot 0_{0}^{2}$$

$$\lim_{n \to \infty} \frac{1}{2} \frac{1}{n} \frac{1}{$$

$$X \in (\frac{1}{2},1) \bigoplus_{n \in \mathbb{N}} \varphi^n(X_n) = 0 \bigoplus_{n \in \mathbb{N}} e^{\infty} - \frac{1}{X_n} = 0 \bigoplus_{n \in \mathbb{N}} X_n = -\ln X_n$$

$$\varphi(x_0) = e^{x_0} - \ln x_0 - 1 = \frac{1}{x_0} + x_0 - 1 > 2\sqrt{x_0} \frac{1}{x_0} - 1 = 1 > 0$$

$$\bigcup_{x\in \mathcal{X}} v(x) > 0 \bigcup_{x\in \mathcal{X}} v(x) \bigcup_{x\in \mathcal{X}} (\frac{1}{2}, +\infty)$$

$$\lim_{n \to \infty} a_n e^{\frac{1}{2}} - \frac{1}{2} \ln \frac{1}{2}$$

$$\lim_{x\to 0} g(x) = (x^2 + x) f(x) = 0 \qquad f(x) = f(x) = 0 \qquad f(x) = 0$$

$$f(x) = \frac{1 - kx - x \ln x}{x e^x}$$

$$X \in (0, +\infty)$$

$$y = f(x) \cdot (1_{\square} f_{\square 1 \square})_{\square \square \square \square} x_{\square \square \square \square}$$

$$f(x) = \frac{1}{xe^x} (1 - x - x \ln x) \prod_{x \in (0, +\infty)} f(x) = \frac{1}{xe^x} (1 - x - x \ln x)$$

$$\square \stackrel{X \in (0,1)}{\square} \stackrel{h(x)}{\square} > 0 \\ \square \stackrel{X \in (1,+\infty)}{\square} \stackrel{h(x)}{\square} < 0 \\ \square$$

$$\Box e^{x} > 0$$

$$\therefore x \in (0,1) \prod f(x) > 0$$

$$X \in (1, +\infty) \prod f(X) < 0$$

$$\therefore f(x)_{\square}(0,1)_{\square\square\square\square}(1,+\infty)_{\square\square\square}$$

$$\therefore g(x) = \frac{x+1}{e^x} (1 - x - x \ln x) \underset{\square}{}_{x \in (0,+\infty)} \square$$

$$\therefore \forall x > 0 \quad \bigcirc g(x) < 1 + e^{x} \Leftrightarrow 1 - x - x + x = e^{x} (1 + e^{x}) \quad \bigcirc$$

$$\therefore h(x) = -\ln x - 2 x \in (0, +\infty)$$

$$\therefore X \in (0, \mathcal{C}^2) \prod h(X) > 0 \prod h(X)$$

$$X \in (\mathcal{C}^2 + \infty) \cap h(X) < 0 \cap h(X) \cap 0$$

$$\therefore h(x)_{max} = h(e^2) = 1 + e^2$$

$$\square^{m(x)} = e^{x} - (x+1)_{\square}$$

$$\therefore m(x) = e^x - 1 = e^x - e^0$$

$$\therefore X \in (0,+\infty) \bigsqcup_{\square \square} M(X) > 0 \bigsqcup_{\square \square} M(X)$$

$$\therefore m(x) > m(0) = 0$$

$$\therefore X \in (0,+\infty) \prod M(X) > 0$$

$$\frac{e^x}{X+1} > 1$$

:.1- X- XInx, 
$$1 + e^2 < \frac{e^x}{1+X}(1+e^2)$$

$$\therefore \forall x > 0 \quad g(x) < 1 + e^2$$

$$900000 f(x) = \frac{a}{2}x^{2} - \ln x + x + 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + \frac{a}{x} + ax - 2a - 1 g(x) = ae^{x} + ax - 2a - 1 g$$

$$0100 a = 10000 g(x) 0[103]$$

$$2000000 \stackrel{X \in (0,+\infty)}{=} g(X) ... f(X) \\ 00000000 \stackrel{\partial}{=} 000000$$

$$g(x) = e^x + \frac{1}{x} + x - 3$$

$$\therefore g'(x) = e^{x} - \frac{1}{x^2} + 1$$

$$\lim_{x \in [1_0^3]} g(x) > 0_0$$

 $0^{g(x)}0^{[1}0^{3]}000000$ 

$$g(x)_{mx} = g_{30} = e^{x} + \frac{1}{3} g(x)_{mx} = g_{10} = e^{x} + 1$$

$$g(x)_{mx} = g(x) - f(x)$$

$$= ae^{x} + \frac{a}{X} + aX - 2a - 1 - (aX - \frac{1}{X} + 1) = ae^{x} + \frac{a+1}{X} - 2(a+1) \underset{\square}{=} X \in (0, +\infty) \underset{\square}{=} a \in (0, +\infty)$$

$$H(X) = ae^{x} - \frac{a+1}{X^{2}} = \frac{ae^{x}X^{2} - a - 1}{X^{2}}$$

$$P(x) = ae^{x}x^{2} - a - 1_{\square}P(x) = ae^{x}x(x+2) > 0_{\square}$$

$$\square^{P(X)}\square^{(0,+\infty)}$$

$$\therefore \exists x \in (0,+\infty) \prod P(x) = 0$$

$$\square \stackrel{X \in (X_{\square} + \infty)}{\square} \stackrel{P(X) > 0}{\square} \stackrel{h(X) > 0}{\square} \stackrel{h(X) > 0}{\square} \stackrel{h(X) = (X_{\square} + \infty)}{\square} \stackrel{+ \infty}{\square}$$

$$\therefore h(x)_{nm} = h(x_0) = ae^{x_0} + \frac{a+1}{x_0} - 2(a+1)$$

$$P(X) = 0 \text{ and } ae^{x_0}X_0^2 - a - 1 = 0 \text{ and } ae^{x_0} = \frac{a+1}{X_0^2}$$

$$h(X_0) = \frac{a+1}{X_0^2} + \frac{a+1}{X_0} - 2(a+1)$$

$$\underbrace{\frac{a+1}{\chi^2} + \frac{a+1}{\chi}} - 2(a+1)..0$$

$$\Box$$
  $a > 0$ 

$$\frac{1}{x^{2}} + \frac{1}{x} - 2.0$$

$$0 < x_{0} = 0$$

$$e^{\aleph}X_0^2 = \frac{a+1}{a}$$

$$0 < \frac{a+1}{a}$$
,,  $e$ 

$$000 \stackrel{a}{=} 000000 \left[ \frac{1}{e \cdot 1} 0^{+\infty} \right] 0$$

$$1000000 f(x) = e^x - x^2$$

$$g(x) = f(x) - ax + \frac{1}{2}(x^2 - a^2) = X \cdot 0 = g(x) \cdot 0 = 0$$

$$g(x) = e^{x} - \frac{1}{2}(x+a)^{2}$$

$$\prod_{x} m(x) = e^{x} - X - a_{\prod_{x}}$$

$$\prod m(x) = e^x - 1$$

$${\scriptstyle \square \ X.\ 0} {\scriptstyle \square \square \ } m(x)...0 {\scriptstyle \square \ } m(x) {\scriptstyle \square \ [0\ \square^{+\infty})} {\scriptstyle \square \ \square \ \square}$$

$$\prod_{n=1}^{\infty} m(x)_{nm} = m(0) = 1 - a_{\square}$$

$$g(x)_{min} = g(0) = 1 - \frac{a^2}{2} ... 0$$

$$0001 < a < e - 200 m(\ln(a+2)) = 2 - \ln(a+2) > 0$$

$$0000X_0 \in (0_0 \ln(a+2))_{00} \ln(X_0) = 0_{00} e^{x_0} = X_0 + a_0$$

$$0 = X \in (0, X_0) = M(x) < 0 = g(x) < 0 = g(x) = 0 = 0$$
 
$$X \in (X_0 | M(a+2)) = M(x) > 0 = g(x) > 0 = g(x) = 0 = 0$$

$$g(x)_{mm} = g(x_0) = e^{x_0} - \frac{1}{2}(x_0 + a)^2 = e^{x_0} - \frac{1}{2}e^{2x_0} = e^{x_0}(1 - \frac{1}{2}e^{x_0})...0$$

$$e^{\kappa}$$
,,  $2e$ 

$$0 < X_y$$
,  $\hbar 2$ 

$$\int t(x) = e^x - 1 > 0$$

$$00^{t(x)}0^{(0}0^{ln2}]000000$$

$$00^{1} < a$$
, 2-  $ln2_0$ 

$$00000 \stackrel{a \in [-\sqrt{2}_0^2 - ln2]_0}{}$$

02000000 
$$f(x) - ex.xhx - x^2 - x + 1_0$$

$$\lim_{X \to 0} X > 0 \quad \lim_{X \to 0} \frac{e^x}{X} - \lim_{X \to 0} \frac{1}{X} - e + 1.0$$

$$D(X) = \frac{e^{X}}{X} - DX - \frac{1}{X} - e + 1$$

$$II(X) = \frac{(X-1)(e^{x}-1)}{X^{2}}$$

$$0 < x < 1_{\square \square} h(x) < 0_{\square} h(x) = 0$$

$$00^{h(x)}$$
  $0^{x=1}$ 

$$0 h(x) ... h_{010} = e - 1 - e + 1 = 0_{0}$$

$$000 X > 000 f(x) - ex.xhx - x^2 - x + 1000$$

$$1100000 \ f(x) = e^x + x h x - x^2 + (1 - a) x_0$$

$$01000 \ \mathcal{Y}^{=\ f(x)} 00 \ (^{1}0 \ f_{010}) 0000000 \ 000 \ ^{3}000$$

$$0000001000 f(x) = e^x + xhx - x^2 + (1 - a)x_{0000} f(x) = e^x + 1 + hx - 2x + 1 - a_0$$

$$000 \ y = f(x) \ 00 \ (1_0 \ f_{010}) \ 0000000 \ e + 1 + 0 - 2 + 1 - a = 0 \ 000 \ a = e_0$$

$$a - 1, \frac{e^x + x \ln x - x^2}{X} = g(x) = \frac{e^x + x \ln x - x^2}{X}$$

$$g'(x) = \frac{(x-1)(e'-x)}{x^2}$$

$$y = e^{x} - x_{0000} y = e^{x} - 1_{0}$$

$$y = e^{x} - x_{00000} e^{-1}$$

$$0 < X < 1_{\bigcirc \bigcirc} \mathcal{G}(X) < 0_{\bigcirc} \mathcal{G}(X) = 0_$$

$$00 g(x) 00000 g_{010} = e - 1_{00} a - 1_{0} e - 1_{0}$$

$$12000000 \ f(x) = x(hx+1)_{\square} \ g(x) = x^2 - ae^x (a \in R)_{\square}$$

$$0100 a = 100000 g(x) 000000$$

$$000000100 \ a = 1_{00} \ g(x) = x^{2} - e^{x}_{00} \ g'(x) = 2x - e^{x}_{0} \ g'(x) = 2 - e^{x}_{0}$$

$$\ \, \square^{g'(x)}\square^{(-\infty, In2)}\square\square\square^{(In2, +\infty)}\square\square$$

$$g(x)_{max} = g(\ln 2) = 2\ln 2 - e^{\ln 2} = 2\ln 2 - 2 < 0$$

$$g(x) < 0_{000} x \in R_{0000}$$

$$h(x) = hx - x + \frac{ae^x}{x}$$

$$II(X) = \frac{a(X^{-}1)e^{x}}{X^{2}} - 1 + \frac{1}{X} = \frac{(X^{-}1)e^{x}}{X^{2}} (a - \frac{X}{e^{x}}) \underset{\square}{\longrightarrow} X \in [1_{\square} + \infty)_{\square}$$

$$00^{[1_{0}+\infty)} 00^{k(x)}, 0^{k(x)} 0000^{k(x)} \in (0^{[\frac{1}{e}]}$$

$$a \cdot \frac{1}{e_{00}} h(x) \cdot 0_{000} h(x) \cdot [1_{0} + \infty)_{000000}$$

$$h(x)_{mn} = h_{010} = ae 1... 1_{00} ae.0_{0000} a..0_{00} a... \frac{1}{e_0}$$

$$0 = h(x), 0 = h(x), 0 = h(x) = [1 + \infty) = h_{010}, -1 = 1 = 0$$

$$0 < a < \frac{1}{e} \sum_{n=0}^{\infty} X_n \in (1, +\infty) \sum_{n=0}^{\infty} ae^{x_n} = X_n$$

$$000 \stackrel{h(X)}{=} (0, X_0) 0000 \stackrel{(X_0 + \infty)}{=} 000$$

$$h(x)_{min} = h(x_0) = \frac{\partial e^{x_0}}{x_0} - x_0 + \ln x_0 = 1 - x_0 + \ln a e^{x_0} = 1 + \ln a \dots - 1$$

$$\lim_{n \to \infty} a \cdot e^2 \lim_{n \to \infty} \frac{1}{e^n} a < \frac{1}{e_n}$$

$$000 \stackrel{a}{=} 000000 \left[ \frac{1}{\vec{e}} _{0}^{+\infty} \right]_{0}$$



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